

due to a rapid rise in the Willamette. Table 2, below, shows the highest stages reached at the various gaging stations along the river.

TABLE 2.—Highest stages reached during annual rise of the Columbia River, 1916.

Station.	River.	Flood stage.	Highest stage, 1916.	Dates.
		<i>Feet.</i>	<i>Feet.</i>	
Bonnere Ferry.....	Kootenai.....	26	32.7	June 22.
Newport.....	Pend d'Oreille .....	16	23.8	July 6 to 9.
Marcus.....	Columbia.....	24	33.8	June 30 & July 5.
Wenatchee.....	do.....	40	46.4	June 30 to July 1.
Kennewick.....	do.....	25	20.8	June 30.
Weiser.....	Snake.....	14	10.3	June 20 to 21.
Kamiah.....	Clearwater.....	12	13.7	June 19.
Lewiston.....	Snake.....	22	16.7	June 20.
Riparia.....	do.....	30	17.0	June 19.
Umatilla.....	Columbia.....	25	23.9	June 30.
The Dalles.....	do.....	40	40.4	July 1.
Cascade Locks.....	do.....	46	32.7	July 1.
Vancouver.....	do.....	15	24.5	July 2 to 6, incl.
Portland.....	Willamette.....	15	23.9	July 4 to 5.

### MEAN LAKE LEVELS DURING JULY, 1916.

By UNITED STATES LAKE SURVEY.

[Dated: Detroit, Mich., Aug. 3, 1916.]

The following data are reported in the Notice to Mariners of the above date:

Data.	Lakes.			
	Superior.	Michigan and Huron.	Erie.	Ontario.
Mean level during July, 1916:	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>
Above mean sea level at New York.....	603.65	581.16	573.24	247.93
Above or below—				
Mean stage of June, 1916.....	+0.17	+0.22	—0.02	+0.07
Mean stage of July, 1915.....	+1.40	+1.26	+1.20	+2.80
Average stage for July, last 10 years.....	+1.25	+0.29	+0.50	+1.16
Highest recorded July stage.....	—0.17	—2.42	—1.17	—0.79
Lowest recorded July stage.....	+2.17	+1.26	+1.78	+3.34
Average relation of the July level to—				
June level.....	+0.2	0.0	—0.1	—0.1
August level.....	—0.2	0.0	+0.1	+0.3